



NOMAD 2™ USER'S GUIDE



TABLE OF CONTENTS

Operation Procedures _____	2
Error Codes and Troubleshooting _____	3
How to Program for Star Choice™ _____	5
Star Choice™ Zone Maps _____	6
Technical Assistance _____	8
Personal Information _____	9

THE FOLLOWING INFORMATION IS CONTAINED ON YOUR INSTALLATION GUIDE CD:

- Parts Included With Your System
- Nomad 2 Specifications
- Mount Cable Connections
- How To Program Your Controller
- Definition Of Front and Rear Connections, Led Indicators and Button Configuration
- Setup Diagram
- Dish Network Receivers
- Dish Network Separators / Directv B-Band Converters
- First-Time Setup
- Wiring Table
- Programming Options
- Limitations Of MD1000.2 And HD-SC2 Systems
- Clearance Orientation Chart
- Star Choice™ Zone Maps
- Manually Stowing Your Dish
- How To Do A Software Update Using Your Computer

OPERATION PROCEDURES

TO FIND A SATELLITE:

1. Turn on the power by pressing the **POWER** button.
2. Wait for approximately 5 seconds for the Nomad 2 to complete its power up sequence.
3. Press the **FIND** button and the dish will search out and lock onto the properly programmed satellite(s).

NOTE: Pressing the FIND button while on satellite will initiate one of two (2) routines.

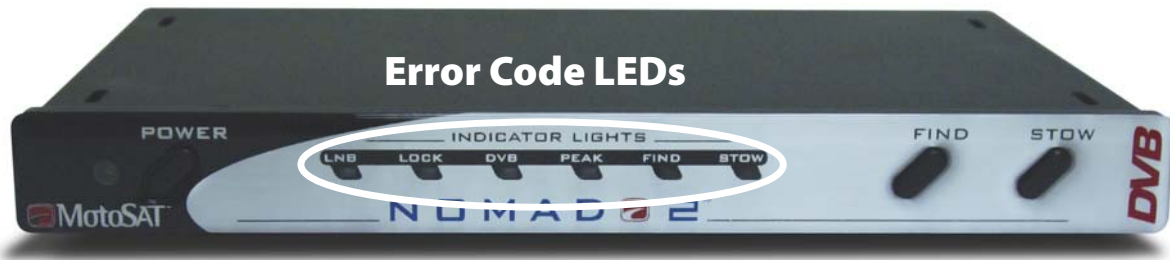
- a. **SKEWABLE** Mounts – Pressing the **FIND** button on the Nomad 2 while locked on a satellite will re-peak the dish for higher signal quality.
- b. **NON-SKEWABLE** Mounts – Pressing the **FIND** button on the Nomad 2 while locked on a satellite will initiate a 'FIND NEXT SATELLITE' routine. Note: Which satellite the Nomad 2 finds next will depend upon the satellite selections that were made when the Nomad 2 was first programmed. Consult the Installation Manual for details concerning Nomad 2 Programming for multiple satellite acquisition.

TO STOW THE DISH:

1. Press the **STOW** button and the dish will stow by returning to the proper travel position.

After the dish has been properly stowed, the Power will automatically turn OFF.

ERROR CODES AND TROUBLESHOOTING



TROUBLESHOOTING

The Nomad 2 Controller is capable of detecting many different types of problems that may occur during operation. The controller will signify that it has found a problem by flashing 1 or more LEDs on its face in 1-second intervals. (See the table on the following page for information about error codes, which LEDs will flash when an error is detected, and some possible causes and solutions for these errors.)

NOTE

Before accepting any of the flashing LED codes, first perform a **TEST DISH** to see if the error continues. If it does, then refer to the table on the next page. If the problem persists and you can find no solution, then please call our Technical Support Line 800-247-7496 for further assistance.

FLASHING LED	ERROR	CAUSE/SOLUTION
STOW	No Error if dish is moving. Only an error if dish is not moving.	If Stow is flashing and mount is not moving, look for stripped gears.
FIND	Invalid Skew Mode (Skewable/Non-Skewable)	Reprogram Nomad Controller
FIND-STOW	Invalid Mode	Reprogram Nomad Controller
PEAK	Motor Time Out. No counts in Elevation.	Dish blocked from moving or bad Elevation Sensor
PEAK-STOW	Motor Time Out. No counts in Azimuth.	Dish blocked from moving or bad Azimuth Sensor
PEAK-FIND	Motor Time Out. No counts in Skew.	Dish blocked from moving or bad Skew Sensor
PEAK-FIND-STOW	Limit Error in Elevation movement.	Dish blocked from moving or bad Elevation Sensor
DVB	Limit Error in Azimuth movement.	Dish blocked from moving or bad Azimuth Sensor
DVB-STOW	Limit Error in Skew movement.	Dish blocked from moving or bad Skew Sensor
DVB-PEAK	Only Main satellite found.	Dish line of sight blocked, try different location
DVB-PEAK-STOW	Main satellite not found but Secondary satellite was.	Dish line of sight blocked, try different location
DVB-PEAK-FIND-STOW	Signal lost, NO LNB Power	Check Satellite Receiver power
LOCK	No satellite found.	Dish line of sight blocked, try different location, possible cabling problem or LNB failure
LOCK-STOW	Over Temperature <u>on Satellite Receiver.</u>	Operational limit of your electronics has been exceeded, provide proper ventilation
LOCK-FIND	Dish did not raise high enough.	Dish blocked from moving or bad Skew Sensor
LOCK-FIND-STOW	Coax cables reversed on back of Nomad.	Switch cables
LOCK-PEAK-FIND-STOW	Could not find main satellite after Skew.	Run TEST DISH
LOCK-DVB	EEPROM failure.	Call Technical Support
LOCK-DVB-STOW	AGC Control Failure.	Call Technical Support

HOW TO PROGRAM YOUR MSC60 OR HD-SC2 FOR ZONES



1. The Nomad 2 Positioner must have Revision 33 (or higher) loaded to be able to do a "Zone Select."
2. Your Nomad 2 Positioner must be programmed to be an MSC60 or a HD-SC2 (Star Choice™.)
3. Turn ON your positioner.
4. Wait until the LED's have flashed (approximately 5 seconds.)
5. To program the ZONE (for symbols see LED LEGEND below):
 - a.)** Press and hold the **FIND** button. The STOW LED will go out. When it goes out, you are in the Zone Program mode.
 - b.)** Continue to hold the **FIND** button down until the Zone LED's begin to illuminate (starting with the STOW LED.) The LED's will begin to change positions.
 - c.)** When the desired Zone LED configuration is illuminated, release the **FIND** button and the system will begin its search for satellites.
 - d.)** If you miss the Zone, turn OFF your positioner and return to step 3 above.

You will not need to reprogram the positioner until you leave the Zone. When you leave a Zone, you will need to repeat the above process.

LED LEGEND

S = STOW

F = FIND

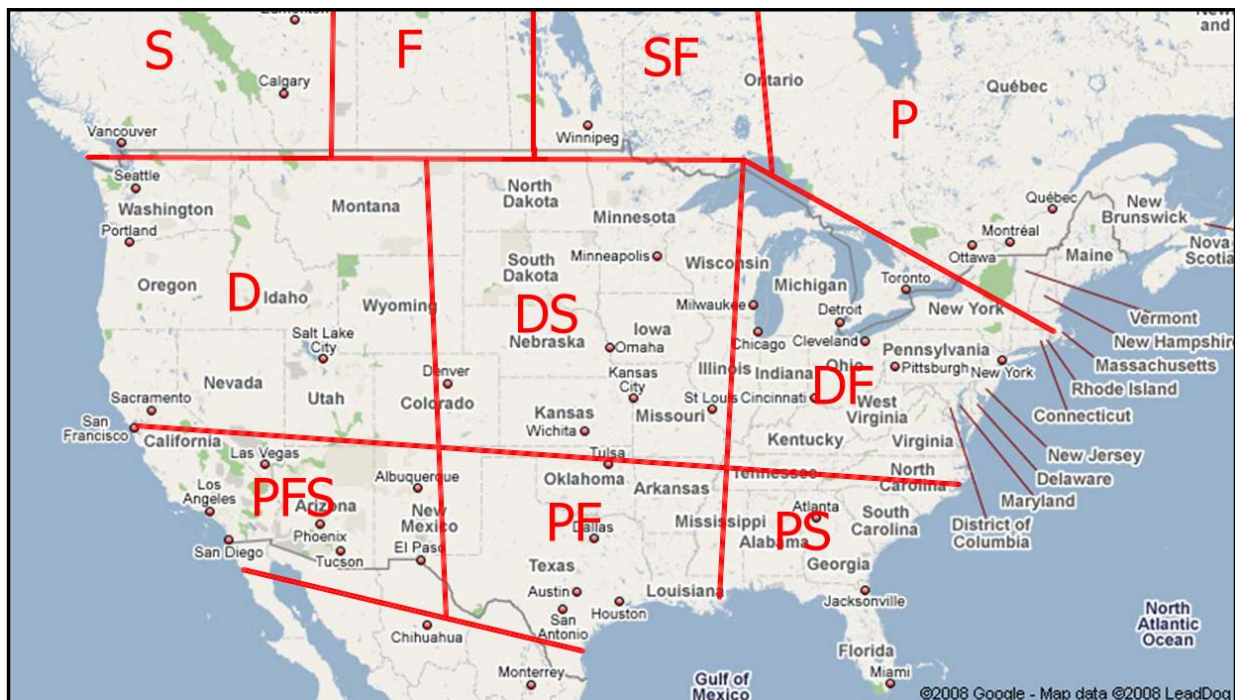
P = PEAK

D = DVB

STAR CHOICE™ MSC60 / HD-SC2 ZONE MAPS

This map is designed to provide input codes that will assist your system to properly acquire the Star Choice™ satellites. Locate on this map the “zone” where you are presently located and then input this information into your Nomad 2 as outlined in your instructions. Your Nomad 2 will acquire the proper satellites. The limitations that you might encounter will be the strength of signal and the ability of the dish size to provide the required levels of signal. Know the limitations of the Star Choice™ antenna. The MotoSAT equipment can not exceed the limitations of the Star Choice™ signal distribution.

CANADA and UNITED STATES



MEXICO

NOTE: A Mexico location may require a larger dish to acquire the proper signal strength for your system to operate. The zones are shown but are not a guarantee of satellite reception.



NOTE: Before calling Technical Support, please ensure that you have performed a “**Test Dish**” and pressed “**Find**” one more time.

MotoSAT Customer/Technical Service

(800) 247-7486 Ext. 338

Mon-Fri 8:00 a.m. to 5:00 p.m. Mountain Standard Time.

• **For easier processing of your Technical Support issue, please have the following information ready when you contact us:**

- MotoSAT Model Number
- Satellite TV Receiver Brand

NOMAD 2™ CONTROLLER INFORMATION

Date Of Installation **M**____ **D**____ **Y**____

DEALER INFORMATION

Company Name:_____ Installed By:_____

Address:_____

City:_____ State:_____ Zip:_____

Phone :_____

YOUR MOTOSAT SYSTEM

☐ EXECUTIVE (18")

☐ EXECUTIVE (24")

☐ MD500

☐ MD1000.2

☐ MHD TV

☐ MSC60

☐ HD-SL-5

☐ HD-DP-3

☐ HD-SC-2

* Not Recommended for use
with the Nomad 2

☐ FREEDOM (12")*

☐ FREEDOM (15")*

YOUR MOTOSAT CONTROLLER

☐ NOMAD II

☐ NOMAD SD

Serial Number: _____

COMMENTS

Fax or mail any questions, comments or Technical Support issues to:

MotoSAT
Attn: Tech Support Receptionist
1955 South Milestone Drive
Salt Lake City, UT 84104

Fax: 801.972.5407
Dealer Services: 800.247.7486

IMPORTANT!

**Be sure to fill out the Product Warranty Included in the packet that shipped
with your MotoSAT system within 10 days of installation to activate your
Product Warranty!**